GCS/137/BBMP/YNK/ Pkg 1/2020-21/145

Date: 17.03.2021

To,

The Executive Engineer,
Yelahanka Division,
Bruhat Bengaluru Mahanagara Palike (BBMP),
Bangalore – 560064

FREQUENCY AND QUALITY REPORT

Sub: Regarding Quality Report for the below mentioned work.

Name of Work: Comprehensive Development of roads and drains at Maruthinagara, Kamakshamma layout, Kondappa layout and A sector in ward no 01, 02 & 04 of Yelahanka Division (Package no – 01)

Sl. NO.	Description of Work	Unit	Quantity	No of samples tested	Standards
1	Providing and laying plain/reinforced cement concrete for side drains walls & bottom thickness 15cm using M20 nominal mix concrete	Cum	2629.21	58	Per 50 Cum
2	Providing TMT Bars Fe 500 steel reinforcement for RCC	MT	162.18	6	Per Dia of steel
3	Providing unreinforced plain cement concrete for pavements using M 30 grade concrete	Cum	917.75	22	Per 50 Cum

With respect to the above subject & name of the work, we have inspected the work and the Quantity and Quality of above mentioned items of the work was found to be completed satisfactorily for the First and Part bill.

For GOOLY CONSULTANCY SERVICES.,

Consultancy Services Bangalore

PROJECT MANAGER

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

AE-02

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Contact: +91-80-42277023/24, 9535200824, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

Lab ID : GCS-137-10116-32

Date : 17/02/2021

TEST REPORT ON PHYSICAL PROPERTIES OF CEMENT

Name of Client: Executive Engineer Bruhat Bangalore Mahanagara Palike

Address: Yelahanka Division

Package No: Package - 01

Name of Work: Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)

Name Contractor: M/s Sri Sai Constructions

Name of PMC: M/s Gooly Consultancy services, Bangalore

Date of Receipt: 17/01/2021

Sample ID No: 10116-32/1

Location: Ward 04, A Sector

Sampling : Sample Received from the site and tested

Sample Identification*: Bharathi OPC 43 grade

Reference to BIS codes: **Test Method:**

IS 4031(Part 1):1996(RA 2016) Determination Of Fineness By Dry Sieving

IS 4031(Part 3):1988 (RA 2019) Determination Of Soundness

IS 4031 (Part 4):1988 (RA 2019) Determination Of Consistency Of Standard Cement Paste

IS 4031 (Part 5):1988 (RA 2019) Determination Of Initial & Final Setting Time

IS 4031 (Part 6):1988 (RA 2019) Determination Of Compressive Strength

IS 4031 (Part 11):1988 (RA 2019) Determination Of Density

Specification :

IS 269 : 2015 Ordinary Portland Cement

Condition of sample: Satisfactory

Date of test: 16/01/2021 to 17/02/2021

Sl.No	Physical properties	Results	Units	Requirement as per IS 269: 2015		
				33 Grade	43 Grade	53 Grade
1	Standard Consistency	30	%	Not specified	Not specified	Not specified
2	Initial Setting time	205	minutes	Min 30 minutes	Min 30 minutes	Min 30 minutes
3	Final Setting time	320	minutes	Max 600 minutes	Max 600 minutes	Max 600 minutes
4	Fineness by dry sieving	6.5	%	-	-	-
8	Density	3.14	g/cm^3	-	-	-

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Date : 17/02/2021

Sample ID No: 10119-32/1

Sl.No	Physical properties	Results	Units	Requirement as per IS 269: 2015		
				33 Grade	43 Grade	53 Grade
9	Compressive Strength					
	3 Days	25.0	N/mm^2	Min 16 N/mm^2	Min 23 N/mm^2	Min 27 N/mm^2
	7 Days	36.0	N/mm^2	Min 22 N/mm^2	Min 33 N/mm^2	Min 37 N/mm^2
	28 Days	45.0	N/mm^2	Min 33 N/mm^2, Max 48 N/mm^2	Min 43 N/mm^2, Max 58 N/mm^2	Min 53 N/mm^2

Remarks:

The tested sample is found to be satisfactory as it meets the requirements of the IS 269 : 2015 Specification/Project Requirement.

1. The test results pertain to the number of sample received and tested
2. Any correction in the report will make this report invalid.
3. This report without prior written approval should not be reproduced or published in full or part.
4. Samples will be disposed after 90 days from the date of issue of test certificate.

Prepared By: Deepthi PT

Tested By: Pushpa D.B

Gooly Consultancy Services Bangalore

Project Manager

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015

Lab ID : GCS-137-10119-32

Date : 23/01/2021

TEST REPORT ON PHYSICAL PROPERTIES OF FINE AGGREGATE

Name of Client: Executive Engineer Bruhat Bangalore Mahanagara Palike

Address: Yelahanka Division

Package No: Package - 01

Name of Work: Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)

Name Contractor: M/s Sri Sai Constructions

Name of PMC: M/s Gooly Consultancy services, Bangalore

Date of Receipt: 18/01/2021

Sample ID No: 10119-32/3

Location: Ward 04, A Sector

Sampling : Sample received from the site and tested

Sample Identification*: M-Sand

Reference to BIS codes: **Test Method:**

IS 2386 (Part 1) : 1963 (RA 2016) Particle Size And Shape Cl 2

IS 2386 (Part 3) : 1963 (RA 2016) Specific gravity, density, voids, absorption and bulking

IS 2386 (Part 4) :1963 (RA 2016) Mechanical Properties

Specification:

IS 383 : 2016 Coarse and fine aggregate for concrete

Condition of sample: Satisfactory

Date of test: 18/01/2021 to 23/01/2021

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF FINE AGGREGATE:

Total weight taken: 1000 grams

SL.No	Sieve Designation	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383 : 2016 Table-9, (Cl-6.3)				Remarks
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV	
1	10 mm	0	0	0	100	100	100	100	100	The tested Sample confirms to Grading Zone- II
2	4.75 mm	0	0	0	100	90-100	90-100	90-100	95-100	
3	2.36 mm	72	72	7.2	92.8	60-95	75-100	85-100	95-100	
4	1.18 mm	312	384	38.4	61.6	30-70	55-90	75-100	90-100	
5	600 micron	250	634	63.4	36.6	15-34	35-59	60-79	80-100	
6	300 micron	235	869	86.9	13.1	5-20	8-30	12-40	15-50	
7	150 micron	125	994	99.4	0.6	0-10	0-10	0-10	0-15	
8	Pan	6	1000	100	0	---	---	---	---	

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Contact: +91-80-42277023/24, 9535200024, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

Sample ID No: 10119-32/3

PHYSICAL PROPERTIES

Sl.No	Tests	Result	Requirements as per IS 383 : 2016 Table-3, (Cl-5.7)
1	Specific Gravity	2.4	2.1 to 3.2
2	Water Absorption (%)	1.6	5% Max
3	Finer tham 75 micron	8.5	10% Max

Remarks:

The tested sample is found to be satisfactory as it meets the requirements of the IS 383 : 2016 Specification/Project Requirement.

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2. Any correction in the report will make this report invalid.
3. This report without prior written approval should not be reproduced or published in full or part.
4. Samples will be disposed after 90 days from the date of issue of test certificate.

Prepared By:
Pushpa D B

Tested By:
Pushpa D B

Project Manager

Gooly Consultancy Services Bangalore

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Lab ID : GCS-137-10223-32
Date : 22/01/2021

TEST REPORT ON MECHANICAL PROPERTIES OF COARSE AGGREGATES

Name of Client: Executive Engineer Bruhat Bangalore Mahanagara Palike
Address: Yelahanka Division
Package No: Package - 01
Name of Work: Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)
Name Contractor: M/s Sri Sai Constructions
Name of PMC: M/s Gooly Consultancy services, Bangalore
Date of Recipient: 18/01/2021
Sample ID No: 10223-32/2
Location: Ward 04, A Sector
Sample Identification*: 20mm down size Coarse Aggregate
Sampling : Sample Received from the site and tested
Reference to BIS codes: **Test Method:**
IS 2386 (Part 1) : 1963 (RA 2016) Particle Size And Shape Cl.2
IS 2386 (Part 3) : 1963 (RA 2016) Specific gravity, density, voids, absorption and bulking
IS 2386 (Part 4) : 1963 (RA 2016) Mechanical Properties
Specification:
IS 383 : 2016 Coarse And Fine Aggregate For Concrete
Condition of sample: Satisfactory
Date of test: 18/01/2021 to 22/01/2021

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM COARSE AGGREGATE:

Total weight taken: 5000 grams

Sl.No	Sieve Designation	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Requirement as per IS 383: 2016 Table-7 (Cl 6.1 & 6.2)	
						Graded	Single-Sized
1	40 mm	0	0	0	100	100	100
2	20 mm	460	460	9.2	90.8	90-100	85-100
3	10 mm	3265	3725	74.5	25.5	25-55	0-20
4	4.75 mm	850	4575	91.5	8.5	0-10	0-5
5	Pan	425	5000	100	0	---	---

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Lab ID : GCS-137-10119-32

Date : 23/1/2021

TEST REPORT ON MECHANICAL PROPERTIES OF REINFORCEMENT STEEL

Name of Client: Executive Engineer Bruhat Bangalore Mahanagara Palike

Address: Yelahanka Division

Package No: Package - 01

Name of Work: Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)

Name Contractor: M/s Sri Sai Constructions

Name of PMC: M/s Gooly Consultancy services, Bangalore

Date of Receipt: 19/01/2021

Location: Ward 04, A Sector

Sampling : Sample Received from the site and tested

Reference to BIS codes: **Test Method:**

IS 1608 (Part 1) : 2018, Metallic Materials, Tensile Testing, Method of Test at Room Temperature

IS 1786 : 2008 (RA 2018) High strength deformed steel bars and wires for concrete reinforcement - Bend & Rebend Test

Specification:

IS 1786 : 2008 (RA 2018) High strength deformed steel bars and wires for concrete reinforcement

Condition of sample: Satisfactory

Date of test: 19/01/2021 to 23/01/2021

Sl. No	Sample Identification	Sample ID No	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH				Bend Test	Re Bend Test
					0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation percent on gauge length		
1	RD TMT Fe 550	10119-32/1a	08	0.386	568	632	1.11	24.0	–	–
	RD TMT Fe 550	10119-32/1b	08	0.387	–	–	–	–	No Rupture or Crack Visible	–
	RD TMT Fe 550	10119-32/1c	08	0.389	–	–	–	–	–	No Rupture or Crack Visible

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Date : 23/1/2021

Sl. No	Sample Identification	Sample ID No	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH				Bend Test	Re Bend Test
					0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation percent on gauge length		
2	RD TMT Fe 550	10119-32/2a	10	0.618	600	660	1.10	25.0	–	–
	RD TMT Fe 550	10119-32/2b	10	0.612	–	–	–	–	No Rupture or Crack Visible	–
	RD TMT Fe 550	10119-32/2c	10	0.615	–	–	–	–	–	No Rupture or Crack Visible

Sl. No	Sample Identification	Sample ID No	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH				Bend Test	Re Bend Test
					0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation percent on gauge length		
3	RD TMT Fe 550	10119-32/3a	12	0.888	602	665	1.10	26.0	–	–
	RD TMT Fe 550	10119-32/3b	12	0.886	–	–	–	–	No Rupture or Crack Visible	–
	RD TMT Fe 550	10119-32/3c	12	0.885	–	–	–	–	–	No Rupture or Crack Visible

Remarks:

The tested sample is found to be satisfactory as it meets the requirements of the IS 1786 : 2008 Specification/Project Requirement.

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Prepared By:
Pushpa D B

Tested By:
Sree Charan S

Gooly Consultancy Services Bangalore

Project Manager

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023

Lab ID : GCS-137-10119-32

Date : 15/03/2021

TEST REPORT ON CEMENT CONCRETE CUBES

Name of Client: Executive Engineer Bruhat Bangalore Mahanagara Palike

Address: Yelahanka Division

Package No: Package - 01

Name of Work: Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)

Name of Contractor: M/s Sri Sai Constructions

Name of PMC: M/s Gooly Consultancy services, Bangalore

Sample Identification*: C C Cube / 150mmx150mmx150mm / M - 20 / 28 days Compressive Strength

Reference to BIS codes: Test Method:

IS 516 : 1959 (RA 2018) Methods Of Tests For Strength Of Concrete Cl.5

Specification:

IS 456 : 2000 (RA 2016) Plain And Reinforced Concrete - Code Of Practice

Condition of sample: Satisfactory

Compressive strength : Min 20 N/mm² as per IS 456 : 2000 (RA 2016) Plain And Reinforced Concrete - Code Of Practice

Sl. No	Sample Identification mark on CC Cubes	Location	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of cube (grams)	Failure Load (kN)	Compressive strength (N/mm²)	Average Compressive strength of 3 Cubes (N/mm²)
					A Sector						
1	1/1	kuvempu park 5th A Cross RHS	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8562	460	20.45	20.5
	1/2	kuvempu park 5th A Cross RHS	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8527	455	20.23	
	1/3	kuvempu park 5th A Cross RHS	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8591	465	20.67	
2	1/1	kuvempu park 14th A Main LHS	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8425	470	20.89	21.0
	1/2	kuvempu park 14th A Main LHS	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8463	485	21.56	
	1/3	kuvempu park 14th A Main LHS	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8485	465	20.67	
3	1/1	kuvempu park 4th A Cross RHS	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8401	470	20.89	20.8
	1/2	kuvempu park 4th A Cross RHS	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8461	480	21.34	
	1/3	kuvempu park 4th A Cross RHS	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8497	455	20.23	
4	1/1	kuvempu park 15th A Main RHS	M-20	23-Jan-21	20-Feb-21	150*150 *150	22500	8547	460	20.45	20.5
	1/2	kuvempu park 15th A Main RHS	M-20	23-Jan-21	20-Feb-21	150*150 *150	22500	8526	455	20.23	
	1/3	kuvempu park 15th A Main RHS	M-20	23-Jan-21	20-Feb-21	150*150 *150	22500	8533	465	20.67	
5	1/1	kuvempu park 7th A Cross, LHS	M-20	23-Jan-21	20-Feb-21	150*150 *150	22500	8549	475	21.12	21.5
	1/2	kuvempu park 7th A Cross, LHS	M-20	23-Jan-21	20-Feb-21	150*150 *150	22500	8411	485	21.56	
	1/3	kuvempu park 7th A Cross, LHS	M-20	23-Jan-21	20-Feb-21	150*150 *150	22500	8566	490	21.78	
6	1/1	kuvempu park 8th A Cross, LHS	M-20	23-Jan-21	20-Feb-21	150*150 *150	22500	8471	485	21.56	21.3
	1/2	kuvempu park 8th A Cross, LHS	M-20	23-Jan-21	20-Feb-21	150*150 *150	22500	8522	480	21.34	
	1/3	kuvempu park 8th A Cross, LHS	M-20	23-Jan-21	20-Feb-21	150*150 *150	22500	8569	470	20.89	

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Sample Identification mark on CC Cubes	Location	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of cube (grams)	Failure Load (kN)	Compressive strength (N/mm^2)	Average Compressive strength of 3 Cubes (N/mm^2)
1/1	15th A Main Poornapragna Education back side RHS	M-20	10-Feb-21	10-Mar-21	150*150 *150	22500	8549	465	20.67	20.8
1/2	15th A Main Poornapragna Education back side RHS	M-20	10-Feb-21	10-Mar-21	150*150 *150	22500	8411	455	20.23	
1/3	15th A Main Poornapragna Education back side RHS	M-20	10-Feb-21	10-Mar-21	150*150 *150	22500	8566	485	21.56	
1/1	15th A Main Poornapragna Education back side RHS	M-20	12-Feb-21	12-Mar-21	150*150 *150	22500	8469	455	20.23	20.5
1/2	15th A Main Poornapragna Education back side RHS	M-20	12-Feb-21	12-Mar-21	150*150 *150	22500	8953	465	20.67	
1/3	15th A Main Poornapragna Education back side RHS	M-20	12-Feb-21	12-Mar-21	150*150 *150	22500	8546	460	20.45	
1/1	13th A cross culvert	M-20	12-Feb-21	12-Mar-21	150*150 *150	22500	8345	470	20.89	21.0
1/2	13th A cross culvert	M-20	12-Feb-21	12-Mar-21	150*150 *150	22500	8411	465	20.67	
1/3	13th A cross culvert	M-20	12-Feb-21	12-Mar-21	150*150 *150	22500	8566	485	21.56	
1/1	13th A cross culvert	M-20	12-Feb-21	12-Mar-21	150*150 *150	22500	8549	465	20.67	20.8
1/2	13th A cross culvert	M-20	12-Feb-21	12-Mar-21	150*150 *150	22500	8411	455	20.23	
1/3	13th A cross culvert	M-20	12-Feb-21	12-Mar-21	150*150 *150	22500	8566	485	21.56	
1/1	12th A cross culvert	M-20	13-Feb-21	13-Mar-21	150*150 *150	22500	8549	465	20.67	20.7
1/2	12th A cross culvert	M-20	13-Feb-21	13-Mar-21	150*150 *150	22500	8411	465	20.67	
1/3	12th A cross culvert	M-20	13-Feb-21	13-Mar-21	150*150 *150	22500	8566	465	20.67	
1/1	12th A cross culvert	M-20	13-Feb-21	13-Mar-21	150*150 *150	22500	8623	470	20.89	21.2
1/2	12th A cross culvert	M-20	13-Feb-21	13-Mar-21	150*150 *150	22500	8535	495	22.00	
1/3	12th A cross culvert	M-20	13-Feb-21	13-Mar-21	150*150 *150	22500	8463	465	20.67	
1/1	3rd A main culvert	M-20	15-Feb-21	15-Mar-21	150*150 *150	22500	8459	465	20.67	21.5
1/2	3rd A main culvert	M-20	15-Feb-21	15-Mar-21	150*150 *150	22500	8354	495	22.00	
1/3	3rd A main culvert	M-20	15-Feb-21	15-Mar-21	150*150 *150	22500	8495	490	21.78	

Remarks:

The tested sample is found to be satisfactory as it meets the requirements of the IS 456 : 2000 Specification/Project Requirement.

1. The test results pertain to the number of samples as recived nd tested.
2. Any correction in the report will make this report invalid.
3. This report without prior written approval should not be reproduced or published in full or part.
4. Samples will be disposed after 90 days from the date of issue of test certificate.

Prepared By:
Pushpa D B

Checked By:

Project Manager

Gooly Consultancy Services Bangalore

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Corporate off : No. 230, Opp. G.R. Lavender Apartments, Sai Enclave Layout, Kothanur Dinne, J.P. Nagar 8th Phase, Bangalore - 560 076.
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GCS-137-10113-32

17/02/2021

TEST REPORT ON PHYSICAL PROPERTIES OF CEMENT

of Client:	Executive Engineer Bruhat Bangalore Mahanagara Palike
ss:	Yelahanka Division
ge No:	Package - 01
of Work:	Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)
Contractor:	M/s Sri Sai Constructions
of PMC:	M/s Gooly Consultancy services, Bangalore
of Receipt:	17/01/2021
le ID No:	10113-32/1
ion:	Ward 02, East kondappa main road
ling :	Sample Received from the site and tested
le Identification*:	Bharathi OPC 43 grade
nce to BIS codes:	**Test Method:**
	IS 4031(Part 1):1996(RA 2016) Determination Of Fineness By Dry Sieving
	IS 4031(Part 3):1988 (RA 2019) Determination Of Soundness
	IS 4031 (Part 4):1988 (RA 2019) Determination Of Consistency Of Standard Cement Paste
	IS 4031 (Part 5):1988 (RA 2019) Determination Of Initial & Final Setting Time
	IS 4031 (Part 6):1988 (RA 2019) Determination Of Compressive Strength
	IS 4031 (Part 11):1988 (RA 2019) Determination Of Density
	Specification :
	IS 269 : 2015 Ordinary Portland Cement
ition of sample:	Satisfactory
of test:	19/01/2021 to 17/02/2021

	Physical properties	Results	Units	Requirement as per IS 269: 2015		
				33 Grade	43 Grade	53 Grade
	Standard Consistency	30	%	Not specified	Not specified	Not specified
	Initial Setting time	200	minutes	Min 30 minutes	Min 30 minutes	Min 30 minutes
	Final Setting time	310	minutes	Max 600 minutes	Max 600 minutes	Max 600 minutes
	Fineness by dry sieving	6.6	%	–	–	–
	Density	3.14	g/cm^3	–	–	–

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-೧೮.

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17/02/2021

ID No: 10113-32/1

Physical properties	Results	Units	Requirement as per IS 269: 2015		
			33 Grade	43 Grade	53 Grade
Compressive Strength					
3 Days	24.5	N/mm²	Min 16 N/mm²	Min 23 N/mm²	Min 27 N/mm²
7 Days	35.0	N/mm²	Min 22 N/mm²	Min 33 N/mm²	Min 37 N/mm²
28 Days	46.0	N/mm²	Min 33 N/mm², Max 48 N/mm²	Min 43 N/mm², Max 58 N/mm²	Min 53 N/mm²

rks:

ested sample is found to be satisfactory as it meets the requirements of the IS 269 : 2015 Specification/Project Requirement.

test results pertain to the number of sample received and tested

correction in the report will make this report invalid.

report without prior written approval should not be reproduced or published in full or part.

mples will be disposed after 90 days from the date of issue of test certificate.

ared By:
thi PT

Tested By:
Pushpa D.B

Project Manager

Gooly Consultancy Services Bangalore

AE-02

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Lab ID : GCS-137-10113-32
Date : 27/01/2021

TEST REPORT ON MECHANICAL PROPERTIES OF COARSE AGGREGATES

Name of Client:	Executive Engineer Bruhat Bangalore Mahanagara Palike
Address:	Yelahanka Division
Package No:	Package - 01
Name of Work:	Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)
Name Contractor:	M/s Sri Sai Constructions
Name of PMC:	M/s Gooly Consultancy services, Bangalore
Date of Recipient:	19/01/2021
Sample ID No:	10113-32/2
Location:	Ward 02, East kondappa main road
Sample Identification*:	20mm down size Coarse Aggregate
Sampling :	Sample Received from the site and Tested
Reference to BIS codes:	**Test Method:**
	IS 2386 (Part 1) : 1963 (RA 2016) Particle Size And Shape Cl.2
	IS 2386 (Part 3) : 1963 (RA 2016) Specific gravity, density, voids, absorption and bulking
	IS 2386 (Part 4) : 1963 (RA 2016) Mechanical Properties
	Specification:
	IS 383 : 2016 Coarse And Fine Aggregate For Concrete
Condition of sample:	Satisfactory
Date of test:	19/01/2021 to 27/01/2021

AE-2
A.E.E

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM COARSE AGGREGATE:

Total weight taken: 5000 grams

Sl.No	Sieve Designation	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Requirement as per IS 383: 2016 Table-7 (Cl 6.1 & 6.2)	
						Graded	Single-Sized
1	40 mm	0	0	0	100	100	100
2	20 mm	485	485	9.7	90.3	90-100	85-100
3	10 mm	3125	3610	72.2	27.8	25-55	0-20
4	4.75 mm	910	4520	90.4	9.6	0-10	0-5
5	Pan	480	5000	100	0	---	---

AE-02

Testing of Construction Material - Mechanical & Chemical, Soil & Non Destructive Testing Services, Project Management Consultancy, Third Party Quality Assurance, Detailed Project Report, Rehabilitation, Road Safety Review & Structural design

GOOLY CONSULTANCY SERVICES
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Contact: +91-80-42277023/24, 9535200024, 8431662730, Email : info@goolyconsultancy.com, goolylab@gmail.com, Website : www.goolyconsultancy.com

Sample ID No: 10113-32/2

MECHANICAL PROPERTIES

Sl.No	Tests	Result	Requirements as per IS 383 : 2016
1	Flakiness Index (%)	6.6	Combined flakiness & elongation index shall not exceed 40 % for uncrushed or crushed aggregate
2	Elongation Index (%)	6.7	
3	Specific Gravity	2.63	–
4	Water Absorption (%)	0.50	–
5	Aggregate crushing strength (%)	22	For Aggregates to be used in concrete for wearing surfaces, (such as runways, roads, pavements, tunnel lining carrying water, spillways and stilling basins): Max 30 %
6	Aggregate Impact Value (%)	24	For Aggregates to be used in concrete for wearing surfaces, (such as runways, roads, pavements, tunnel lining carrying water, spillways and stilling basins): Max 30 % For Aggregates to be used in concrete other than for wearing surfaces: Max 45 %

AE-2
A.E.E

Remarks:-

The tested sample is found to be satisfactory as it meets the requirements of the IS 383 : 2016 Specification/Project Requirement with respect to above tests conducted, where as the gradation confirms to Graded aggregate.

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2. Any correction in the report will make this report invalidate
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4. Samples will be disposed after 90 days from the date of issue of test certificate.

Prepared By:
Pushpa D B

Tested By:
Sree Charan S

AE-02

Gooly Consultancy Services Bangalore

Project Manager

GOOLY CONSULTANCY SERVICES

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25/01/2021

Sample Identification	Sample ID No	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH				Bend Test	Re Bend Test
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation percent on gauge length		
RD TMT Fe 550	10113-32/2a	10	0.600	604	665	1.10	24.0	–	–
RD TMT Fe 550	10113-32/2b	10	0.615	–	–	–	–	No Rupture or Crack Visible	–
RD TMT Fe 550	10113-32/2c	10	0.605	–	–	–	–	–	No Rupture or Crack Visible

Sample Identification	Sample ID No	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH				Bend Test	Re Bend Test
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation percent on gauge length		
RD TMT Fe 550	10113-32/3a	12	0.885	601	663	1.10	25.0	–	–
RD TMT Fe 550	10113-32/3b	12	0.887	–	–	–	–	No Rupture or Crack Visible	–
RD TMT Fe 550	10113-32/3c	12	0.886	–	–	–	–	–	No Rupture or Crack Visible

A.E.E

Remarks:

The tested sample is found to be satisfactory as it meets the requirements of the IS 1786 : 2008 Specification/Project Requirement.

1. The test results pertain to the number of samples received from the site and tested
2. Any correction in the report will make this report invalid.
3. This report without prior written approval should not be reproduced or published in full or part.
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Prepared By:
Pushpa D B

Tested By:
Sree Charan S

Project Manager

Gooly Consultancy Services Bangalore

AE-02

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GCS-137-10113-32

15/03/2021

TEST REPORT ON CEMENT CONCRETE CUBES

Name of Client: Executive Engineer Bruhat Bangalore Mahanagara Palike

Address: Yelahanka Division

Package No: Package - 01

Name of Work: Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No- 01, 02 & 04 of Yelahanka division (package no - 01)

Name of Contractor: M/s Sri Sai Constructions

Name of PMC: M/s Gooly Consultancy services, Bangalore

Sample Identification*: C C Cube / 150mmx150mmx150mm / M - 20 / 28 days Compressive Strength

Reference to BIS: **Test Method:**

IS 516 : 1959 (RA 2018) Methods Of Tests For Strength Of Concrete Cl.5

Specification:

IS 456 : 2000 (RA 2016) Plain And Reinforced Concrete - Code Of Practice

Condition of sample: Satisfactory

Compressive strength : **Min 20 N/mm² as per IS 456 : 2000 (RA 2016) Plain And Reinforced Concrete - Code Of Practice**

Sl. No.	Sample Identification mark on CC Cubes	Location	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of cube (grams)	Failure Load (kN)	Compressive strength (N/mm²)	Average Compressive strength of 3 Cubes (N/mm²)
1	1/1	Ward 2, East Kondappa layout 16th cross	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8473	465	20.7	21.0
	1/2	Ward 2, East Kondappa layout 16th cross	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8477	455	20.2	
	1/3	Ward 2, East Kondappa layout 16th cross	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8480	495	22.0	
2	1/1	Ward 2, East Kondappa layout 16th cross	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8549	495	22.0	20.8
	1/2	Ward 2, East Kondappa layout 16th cross	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8411	455	20.2	
	1/3	Ward 2, East Kondappa layout 16th cross	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8566	455	20.2	
3	1/1	Ward 2, East Kondappa layout 14th sub cross1	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8473	465	20.7	20.9
	1/2	Ward 2, East Kondappa layout 14th sub cross1	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8477	460	20.5	
	1/3	Ward 2, East Kondappa layout 14th sub cross1	M-20	21-Jan-21	18-Feb-21	150*150 *150	22500	8480	485	21.6	
4	1/1	Ward 2, East Kondappa layout 14th sub cross1	M-20	23-Jan-21	20-Feb-21	150*150 *150	22500	8473	455	20.2	20.6
	1/2	Ward 2, East Kondappa layout 14th sub cross1	M-20	23-Jan-21	20-Feb-21	150*150 *150	22500	8477	465	20.7	
	1/3	Ward 2, East Kondappa layout 14th sub cross1	M-20	23-Jan-21	20-Feb-21	150*150 *150	22500	8480	470	20.9	

GOOLY CONSULTANCY SERVICES

ISO 9001 : 2015 Certified & NABL Accreditated Laboratory as per ISO/IEC - 17025 - 2017

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001

Sl. No	Sample Identification mark on CC Cubes	Location	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of cube (grams)	Failure Load (kN)	Compressive strength (N/mm^2)	Average Compressive strength of 3 Cubes (N/mm^2)
34	1/1	Ward 2, East kondappa 30th cross road	M-20	15-Feb-21	15-Mar-21	150*150 *150	22500	8495	455	20.2	20.9
	1/2	Ward 2, East kondappa 30th cross road	M-20	15-Feb-21	15-Mar-21	150*150 *150	22500	8450	475	21.1	
	1/3	Ward 2, East kondappa 30th cross road	M-20	15-Feb-21	15-Mar-21	150*150 *150	22500	8453	480	21.3	

Remarks:

The tested sample found to be satisfactory as it meets the requirements of the IS 456 : 2000 Specification/Project Requirement.

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Prepared By:
Pushpa D B

Tested By:
Ashwini

Project Manager

Gooly Consultancy Services Bangalore

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019

Lab ID : GCS-137-10113-32

Date : 17/3/2021

TEST REPORT ON CEMENT CONCRETE CUBES

Name of Client: Executive Engineer Bruhat Bangalore Mahanagara Palike

Address: Yelahanka Division

Package No: Package - 01

Name of Work: Comprehensive development of roads, drains at Maruthinagara , kamakshamma layout, kondappa layout and A sector in ward No-01, 02 & 04 of Yelahanka division (package no - 01)

Name of Contractor: M/s Sri Sai Constructions

Name of PMC: M/s Gooly Consultancy services, Bangalore

Sample Identification*: C C Cube / 150mmx150mmx150mm / M - 30 / 28 days Compressive Strength

Reference to BIS codes:

Test Method:

IS 516 : 1959 (RA 2018) Methods Of Tests For Strength Of Concrete Cl.5

Specification:

IS 456 : 2000 (RA 2016) Plain And Reinforced Concrete - Code Of Practice

Condition of sample: Satisfactory

Compressive strength : Min 30N/mm² as per IS 456 : 2000 (RA 2016) Plain And Reinforced Concrete - Code Of Practice

Sl. No	Sample Identification mark on CC Cubes	Location	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of cube (grams)	Failure Load (kN)	Compressive strength (N/mm²)	Average Compressive strength of 3 Cubes (N/mm²)
1	1/1	Ward 2 East Kondappa layout 16th cross road	M-30	24-Jan-21	21-Feb-21	150*150*150	22500	8517	700	31.1	31.6
	1/2	Ward 2 East Kondappa layout 16th cross road	M-30	24-Jan-21	21-Feb-21	150*150*150	22500	8596	690	30.7	
	1/3	Ward 2 East Kondappa layout 16th cross road	M-30	24-Jan-21	21-Feb-21	150*150*150	22500	8506	740	32.9	
2	1/1	Ward 2 East Kondappa layout 16th cross road	M-30	25-Jan-21	22-Feb-21	150*150*150	22500	8577	710	31.6	30.7
	1/2	Ward 2 East Kondappa layout 16th cross road	M-30	25-Jan-21	22-Feb-21	150*150*150	22500	8568	685	30.5	
	1/3	Ward 2 East Kondappa layout 16th cross road	M-30	25-Jan-21	22-Feb-21	150*150*150	22500	8599	680	30.2	
3	1/1	Ward 2, East Kondappa layout Sub cross 2	M-30	26-Jan-21	23-Feb-21	150*150*150	22500	8475	690	30.7	31.4
	1/2	Ward 2, East Kondappa layout Sub cross 2	M-30	26-Jan-21	23-Feb-21	150*150*150	22500	8425	695	30.9	
	1/3	Ward 2, East Kondappa layout Sub cross 2	M-30	26-Jan-21	23-Feb-21	150*150*150	22500	8484	735	32.7	
4	1/1	Ward 2, West Kondappa layout 27th cross	M-30	27-Jan-21	24-Feb-21	150*150*150	22500	8463	720	32.0	31.1
	1/2	Ward 2, West Kondappa layout 27th cross	M-30	27-Jan-21	24-Feb-21	150*150*150	22500	8425	680	30.2	
	1/3	Ward 2, West Kondappa layout 27th cross	M-30	27-Jan-21	24-Feb-21	150*150*150	22500	8483	700	31.1	

AE-2

A.E.E

AE-02

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Sl. No	Sample Identification mark on CC Cubes	Location	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of cube (grams)	Failure Load (kN)	Compressive strength (N/mm^2)	Average Compressive strength of 3 Cubes (N/mm^2)
20	1/1	Ward 2, West Kamakshamma layout 5th Cross	M-30	15-Feb-21	15-Mar-21	150*150 *150	22500	8550	680	30.2	31.3
	1/2	Ward 2, West Kamakshamma layout 5th Cross	M-30	15-Feb-21	15-Mar-21	150*150 *150	22500	8479	700	31.1	
	1/3	Ward 2, West Kamakshamma layout 5th Cross	M-30	15-Feb-21	15-Mar-21	150*150 *150	22500	8520	735	32.7	
21	1/1	Ward 2, West kondappa 29th cross	M-30	16-Feb-21	16-Mar-21	150*150 *150	22500	8515	700	31.1	31.7
	1/2	Ward 2, West kondappa 29th cross	M-30	16-Feb-21	16-Mar-21	150*150 *150	22500	8470	715	31.8	
	1/3	Ward 2, West kondappa 29th cross	M-30	16-Feb-21	16-Mar-21	150*150 *150	22500	8528	725	32.2	
22	1/1	Ward 2, West Kamakshamma layout 6th Cross after connecting patch	M-30	17-Feb-21	17-Mar-21	150*150 *150	22500	8534	705	31.3	31.4
	1/2	Ward 2, West Kamakshamma layout 6th Cross after connecting patch	M-30	17-Feb-21	17-Mar-21	150*150 *150	22500	8497	700	31.1	
	1/3	Ward 2, West Kamakshamma layout 6th Cross after connecting patch	M-30	17-Feb-21	17-Mar-21	150*150 *150	22500	8501	715	31.8	

Remarks:

1. **The tested sample is found to be satisfactory as it meets the requirements of the IS 456 : 2000 Specification/Project Requirement.**
2. The test results pertain to the number of samples as furnished by the customer
3. Any correction in the report will make this report invalid.
4. This report without prior written approval should not be reproduced or published in full or part.
5. Samples will be disposed after 90 days from the date of issue of test certificate

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